

Table A1

| Table III in Declaration of March 15, 2010 | | | | Table 1 Embodiment No. 1 | | Table 2 Second Porcelain | | | | | | | |
|--|-------|--------------------|---------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| GLASS1 (SBS) | INGOT | First Porcelain | Second Porcelain | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 | No. 9 | No. 10 | |
| SiO ₂ | 68.0 | 65.6 | 68.7 | 65.0 | 62.6 | 63.9 | 64.7 | 64.3 | 65.4 | 66.7 | 66.0 | 66.6 | |
| Al ₂ O ₃ | 15.9 | 16.1 | 14.0 | 16.0 | 17.8 | 15.8 | 16.0 | 16.2 | 15.2 | 16.0 | 15.9 | 16.4 | |
| Fe ₂ O ₃ | | | | | | | | | | | | | |
| TiO ₂ | | | | | | | | | | | | | |
| Li ₂ O | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.1 | 0.1 | |
| Na ₂ O | 5.0 | 4.5 | 5.0 | 5.0 | 4.9 | 4.9 | 5.0 | 4.8 | 4.8 | 4.5 | 4.5 | 4.1 | |
| wt%K ₂ O | 10.0 | 9.8 | 9.0 | 10.0 | 9.7 | 9.9 | 10.0 | 10.6 | 10.5 | 9.0 | 10.0 | 9.2 | |
| MgO | | 0.1 | | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.2 | 0.5 | |
| CaO | 0.3 | 0.7 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.5 | 0.7 | 0.5 | |
| BaO | | | | | | | | | | | | | |
| Sb ₂ O ₃ | 0.2 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| CeO ₂ | | 0.8 | | 0.7 | 0.7 | 0.7 | | 0.8 | 0.8 | | 0.8 | 0.8 | |
| ZrO ₂ | 0.3 | 0.5 | 3.0 | | | 0.5 | | | | | | | |
| B ₂ O ₃ | | 0.8 | | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 | 1.0 | 0.8 | 0.8 | |
| F ₂ | | | | | | | | | | | | | |
| SnO ₂ | | | | | | | | | | | | | |
| SiO ₂ /Al ₂ O ₃ | 4.3 | 4.1 | 4.9 | 4.1 | 3.5 | 4.0 | 4.0 | 4.0 | 4.3 | 4.2 | 4.2 | 4.1 | |
| SiO ₂ /Na ₂ O | 13.6 | 14.6 | 13.7 | 13.0 | 12.8 | 13.0 | 12.9 | 13.4 | 13.6 | 14.7 | 14.7 | 16.2 | |
| Viscosity | | | 9 × 10 ⁶ | 5.5 × 10 ⁶ | 5.0 × 10 ⁶ | 5.3 × 10 ⁶ | 5.4 × 10 ⁶ | 6.3 × 10 ⁶ | 6.4 × 10 ⁶ | 7.2 × 10 ⁶ | 7.5 × 10 ⁶ | 8.5 × 10 ⁶ | |

Table A2

| | | Table 3 No.11 | | Table 4 Second Porcelain | | | | | | | | | | Table 5 | Table 6 |
|------------------|--|-----------------------|---------------------|-----------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|---------------------|---------|---------|
| | | First Porcelain | Second Porcelain | No. 12 | No. 13 | No. 14 | No. 15 | No. 16 | No. 17 | No. 18 | No. 19 | First Porcelain | First Porcelain | | |
| | | | | | | | | | | | | | | | |
| wt% | SiO ₂ | 47.7 | 64.5 | 62.6 | 64.5 | 64.5 | 64.9 | 64.4 | 64.8 | 64.8 | 64.8 | 66.9 | 65.7 | 45.7 | |
| | Al ₂ O ₃ | 14.0 | 14.3 | 13.9 | 14.6 | 14.3 | 14.6 | 14.3 | 14.6 | 14.6 | 14.6 | 15.5 | 11.0 | 13.0 | |
| | Fe ₂ O ₃ | | | | | | | | | | | | | | |
| | TiO ₂ | | | | | | | | | | | | | | |
| | Li ₂ O | 0.3 | 0.3 | 0.2 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.0 | 0.3 | 0.3 | |
| | Na ₂ O | 6.0 | 9.0 | 11.7 | 9.2 | 8.5 | 8.5 | 9.1 | 9.1 | 9.7 | 9.8 | 8.0 | 7.0 | 10.0 | |
| | K ₂ O | 10.0 | 10.0 | 9.7 | 9.6 | 10.0 | 8.6 | 9.6 | 9.6 | 8.7 | 9.4 | 7.2 | 8.0 | 10.0 | |
| | MgO | 1.0 | 0.4 | 0.4 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| | CaO | 1.0 | 1.0 | 1.0 | 0.8 | 1.0 | 2.1 | 0.8 | 0.8 | 0.8 | 0.1 | 0.7 | 1.0 | 1.0 | |
| | BaO | | | | | | | | | | | | | | |
| | Sb ₂ O ₃ | | | | 0.8 | | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.6 | | | |
| | CeO ₂ | | | | | | | | | | | | 1.0 | | |
| | ZrO ₂ | | 0.5 | 0.5 | | 0.5 | | 0.5 | | | | | 5.0 | | |
| | B ₂ O ₃ | | | | | 0.5 | | | | | | | 1.0 | | |
| | F ₂ | | | | | | | | | | | | | | |
| SnO ₂ | 20.0 | | | | | | | | | | | | 20.0 | | |
| | SiO ₂ /Al ₂ O ₃ | 3.4 | | 4.5 | 4.4 | 4.5 | 4.4 | 4.5 | 4.4 | 4.4 | 4.3 | 6.0 | 3.5 | | |
| | SiO ₂ /Na ₂ O | 8.0 | | 5.4 | 7.0 | 7.6 | 7.6 | 7.1 | 6.7 | 6.6 | 6.4 | 9.4 | 4.6 | | |
| | Viscosity | 1.5 × 10 ⁷ | 1 × 10 ⁷ | 0.6 × 10 ⁷ | 1.18 × 10 ⁷ | 1.2 × 10 ⁷ | 1.25 × 10 ⁷ | 1.26 × 10 ⁷ | 1.27 × 10 ⁷ | 1.30 × 10 ⁷ | 1.48 × 10 ⁷ | 1 × 10 ⁶ | 1 × 10 ⁶ | | |

Table B

| | Example 1 | Example 2 | Example 3 | Example 4 | Example 5 |
|--|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | Body/ Incisal Porcelain | White Opaque Porcelain | White Opaque Porcelain | White Opaque Porcelain | White Opaque Porcelain |
| SiO ₂ /Al ₂ O ₃ | 5.3 | 4.4 | 4.3 | 4.4 | 4.3 |
| SiO ₂ /Na ₂ O | 12.9 | 10.9 | 10.8 | 11.1 | 11.1 |